



UNITED STATES PARTMENT OF COMMERCE

10/22/01

Patent and Trademark Office

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DATE MAILED:

Washington, D.C. 20231

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. M00506/70023 W CLARK 05/11/01 09/853,512 **EXAMINER** MMC2/1022 023628 NGUYEN, C WOLF GREENFIELD & SACKS, PC FEDERAL RESERVE PLAZA **ART UNIT** PAPER NUMBER 600 ATLANTIC AVENUE 2831 BOSTON MA 02210-2211

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary Examiner Chau N Nguyen 2831 The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).			
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1) Responsive to communication(s) filed on			
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4)⊠ Claim(s) <u>1-29</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-29</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or election requirement.			
Application Papers			
9)☐ The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.			
12) ☐ The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).			
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.			
Attachment(s)			
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2 Other:			



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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO.

MO0506/70023

09/853,512

05/11/01

CLARK

023628 MMC2/1022
WOLF GREENFIELD & SACKS, PC
FEDERAL RESERVE PLAZA
600 ATLANTIC AVENUE
BOSTON MA 02210-2211

EXAMINER
NGUYEN, C

ART UNIT 2831

DATE MAILED:

10/22/01

PAPER NUMBER

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Application No.	Applicant(s)	
Office Action Summary	09/853,512	CLARK ET AL.	
	Examiner	Art Unit	
	Chau N Nguyen	2831	
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If approved, corrected drawings are required in reply to this Office action.			
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1. Certified copies of the priority documents have been received.			
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DETAILED ACTION

Priority

1. This application claims the priority of an U.S. Patent Application Serial No. 09/257,844, however it is not clear that this instant application is a Continuation or a Continuation-in-part of the parent application. In the Transmittal latter filed on May 11, 2001, it is disclosed that this instant application is a Continuation of 09/257,844, however this priority claim is not in the declaration. Correction is required.

Specification

2. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: the specification does not provide proper antecedent basis for "the plurality of grooves do not form completely enclosed channels" as claimed in claims 1, 10, 24 and 26.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it

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pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 4. Claims 1-29 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for "a plurality of enclosed channels", does not reasonably provide enablement for "the grooves do not form completely enclosed channels". The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.
- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 1-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, line 7; Claim 10, line 5; Claim 24, line 7; Claim 26, line 5, "data communications cable" should be changed to --dielectric pair separator--.

Claim 5, line 2, delete "material", second occurrence.

Claim 26, lines 6-7, "the first twisted pair of insulated conductors, the second twisted pair of insulated conductors" lacks antecedent basis.

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Claim 26, lines 18-19, "the twisted pair of insulated conductors" lacks antecedent basis.

Claim 26, lines 14 and 20, the recitation of "a plurality of enclosed channels" is conflicted with the recitation of "the grooves do not form completely enclosed channels".

Re claim 28, the limitations recited in claim 28 are already recited in claim 26, therefore claim 28 is redundant.

Claims 2-4, 6-25 and 29 are included in this rejection because of dependency.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

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Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Boucino et al. (5,969,295) in view of Simons et al. (3,911,200).

Boucino et al: discloses a data communications cable comprising a first twisted pair of insulated conductors, a second twisted pair of insulated conductors, a dielectric pair separator disposed between the first and second twisted pairs, the separator providing a plurality of grooves extending along a longitudinal length of the separator, the separator providing a sufficient spacing between the first and second twisted pairs to provide a desired crosstalk isolation between the first and second pairs, and a jacket assembly enclosing the first and second twisted pairs and the separator, and wherein the plurality of grooves do not form completely enclosed channels (Fig. 2).

Boucino et al. does not disclose the separator consisting of a dielectric layer and a conductive layer and being folded and arranged to provide a plurality of grooves. Simons et al. discloses a dielectric separator consisting of a dielectric

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layer and a conductive layer and being folded and arranged to provide a plurality of grooves. It would have been obvious to one skilled in the art to use the separator as taught by Simons et al. for the separator of Boucino et al. since the separator of Simons et al. not only provides separating the pairs but also provides a shielding between the pairs.

Double Patenting

10. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

11. Claims 1-29 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 2-14, 15, 16-23 and 25 of U.S. Patent No. 6,248,954 (Clark et al.) in view of Mottine et al. (6,037,546).

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Clark et al. discloses the invention as claimed except for the channels formed by the plurality of grooves being incompletely enclosed channels. Mottine et al. discloses a data communications cable comprising a cable core (15) and a jacket assembly enclosing the cable core, and wherein an air gap is located between the jacket and the cable core.

It would have been obvious to one skilled in the art to modify the cable of Clark et al. by providing an air gap between the jacket assembly and the cable core to enhance the electrical performance of the cable as taught by Mottine et al. (col. 5, line 58 through col. 6, line 56). Noted that since an air gap is provided between the jacket assembly and the cable core, the channels formed by the grooves are not completely enclosed channels.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau N Nguyen whose telephone number is 308-0693. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (703) 308 3682. The fax phone numbers for the organization where this application or proceeding is

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assigned are (703) 308 3431 for regular communications and (703) 305 1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

> Chau N Nguyen **Primary Examiner**

Chargun

Art Unit 2831

CN October 18, 2001